



The Raleigh Amateur Radio Society's **EXCITER**

GET INVOLVED

- RARS General Membership meeting: Second Tuesday of the month.
- The RARS net meets every night except Saturday @ 8 p.m. on 146.640.
- The RARS Technical & Trader's net: Saturdays @ 8:00 PM on 146.64.
- RARS meets for a monthly dinner on the First Tuesday of each month.



PUBLIC SERVICE EVENTS

Interested in helping? Visit
<http://www.rars.org/public-service.php>

frequently for our 2017
ham public service
schedule.

RARS General Meeting

Topic: SKYWARN training, By Virginia NC4VA

Date: May 9, 2017

Time: Meeting at 7:30PM

Informal gathering and refreshments from 7 - 7:30 p.m.

Where: Ridge Road Baptist Church. 2011 Ridge Rd., Raleigh

New HAM / Elmer meeting, 6:00 p.m. before member meeting

Tadd Torborg, KA2DEW, Elmer Coordinator

[Click here for more information.](#)

President's Message

The 2017 edition of RARSfest has come and gone and what a time it was. Kudos to the RARSfest committee and the many volunteers who graciously donated their time and efforts to make this a great event for RARS as well as a great convention for the Roanoke Division of the American Radio Relay League. I'm sure The Old Man was smiling down at the efforts of those who made it happen. Many positive comments were received from both vendors and guests and those will be reviewed in the hopes of making next year even better.

The various forums were well-attended and many new and upgraded licensees participated in VE testing. The

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RARS Officers

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VICE PRESIDENT

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The Raleigh Amateur Radio Society

The Raleigh Amateur Radio Society, Inc. (RARS) was founded in 1969 and continues to serve and support the amateur radio community in the greater Triangle area. In 1999, the society incorporated a new RARS and obtained 501(c)(3) non-profit tax status.

The objectives of the club are to promote worldwide friendship through amateur radio; to be of public service by providing radio communications in times of disaster, emergency, or civic needs; to educate members in radio technique, and to provide training classes to assist in obtaining amateur radio licenses.

Anyone interested in amateur radio is eligible to apply for membership. Dues for regular licensed amateurs are \$18 per year (from July 1 through June 30). Additional immediate family members pay \$5 each per year. Dues for licensed amateurs older than 59 or younger than 16 are \$12 per year. Dues for non-licensed associate members are \$9 per year. Applications for membership may be obtained from the treasurer or on the RARS website (www.rars.org).

Exciter

The Exciter is the official newsletter of the Raleigh Amateur Radio Society. It appears each month as a PDF on the RARS website at www.rars.org. Members receive email notification when the latest version is available. Please provide your email address to the Treasurer.

The Exciter welcomes articles, advertisements, and other contributions. To submit a piece to the newsletter, please contact the Editor. The Editor reserves the right to edit any and all pieces. The submission deadline for each month's Exciter is the third Friday of the preceding month. All submissions must be final. Drafts are not accepted.

The views expressed in the Exciter are those of the individual authors and do not necessarily reflect the views of the Editor or RARS.

Tom Lewis, N4TL, editor (editor@rars.org)

For Your Information

RARS General Meeting

Date: **Second** Tuesday of each month

Location: Ridge Road Baptist Church 2011
Ridge Road Raleigh, NC, 27607

Time: People begin arriving at 7 p.m. The meeting officially begins at 7:30 p.m.

RARS Monthly Dinner

All members and guests are welcome to the monthly (first Tuesday) RARS Supper, 6:30PM, at the Golden Corral Restaurant, 6129 Glenwood Ave., Raleigh. Informal and Dutch, just bring your appetite and best rag to chew. 73, Chuck, K4HF

RARS Repeaters in Raleigh

146.640 and 444.525

Join us for the nightly RARS net at 8 p.m. on the 146.640 repeater. All hams holding a Technician class license or higher are invited to check in. We welcome both RARS and non-RARS members to the net.

There is a net Listing on the RARS website click here. <http://www.rars.org/nets.php>

VE Testing

The RARS VEs will accept walk-in testing in February, May, August and November at 5:30PM, prior to RARS membership meetings at Ridge Road Baptist Church; the RARSfest in April; the Cary Swapfest in July; the JARS-Fest in November; and following RARS license classes. Please bring a photo ID, your original and a copy of your current license, your \$14 exam fee, and any valid CSCEs that prove passing elements beyond that of your current license. Visit www.rars.org for more information.

President's Message continued

satellite contact demonstration was a large success despite being a late addition to the lineup. Thanks to those who made that happen. Apparently, there were several very satisfied customers! The youth station and antenna building station were both very popular as well.

Thanks to all of those who volunteered their time to the various positions such as Admissions, Security, Stage, Setup, Tear Down, and Social, as well as the RARS Table and Project Table. For the first time, Admissions actually had too many volunteers! I am happy to report that Bob, NC1X, handled the overbooking in a manner acceptable to all those involved.

The new Technician license class has started. Soon we will have another crop of new hams to helpfully join us at RARS. Classes for General and Extra Class are also in the works. If you are thinking about an upgrade, check the schedule on the RARS website.

The next big event for RARS is Field Day on June23-25. Setup will begin on Friday with the event running from 1400 hours EDT on Saturday through 1359 hours on Sunday. Volunteers are needed to operate and/or log for the

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twice-around-the-clock event. If you are an experience operator or a brand new ham, you are certainly welcome to attend and participate. There will also be a GOTA station for those who are not licensed or are new or inactive hams to have an opportunity to Get On The Air. Check on the Field Day page on the RARS website for more information. The presentation at the June club meeting will also have more Field Day information.

73, Dennis Keith NC4DK

New RARS Members

Jim Scarborough	KE4ROH
John Brier	KG4AKV
Kevin Krautwald	KN4CDH
Michael Akers	KN4CBZ
Chad Cecil	N4CTZ
Dave Price	K4KDP
Edmund Brady	KM4TCB
Joseph Powell	WB4HXM
Evan McNabb	NC4EV
Hank Von Dohlen III	KI4UMX
Brock Card	WA4IHM
Arthur Schultz	N2UHI
Hertz Hertzberg	KN4CUZ
Ed Allison	KN4CUU
Sheridan Page	KN4CUS
Mike Skinner	KN4CUT
Donald Peters	KW4CVG

RARS May Birthdays

Pete	K4BLY	05/03
Matt	NC4SU	05/03
John	KJ4JAS	05/04
Julie	KM4JEN	05/04
Ron	KJ4DNS	05/04
Larry	KG4FIQ	05/05
Liz	KO4CK	05/05
John	K3RHJ	05/06
Allie	KM4RMS	05/07
Hank	K4HM	05/08
Wayne	K6TWX	05/08
Tom	N4UAK	05/08
Nancy	KB1HIX	05/10
Brian	KA9QJT	05/10
Bob	NC1X	05/11
David	KC4DFB	05/12
Chuck	AE4CD	05/12
Wally	NC1NC	05/15
Mike	KN4CUT	05/17
Chris	KE4TMO	05/17
Frank	W4NPN	05/17
Bill	AK4BL	05/20
Larry	K1ZW	05/20
Lyn	WA4GEH	05/24
Joe	K4UOO	05/24
Evan	NC4EV	05/25
Fred	NC4FB	05/26
Hank	KI4UMX	05/27
Courtney	KI4HOS	05/27
William	KM4JPP	05/28
Neil	KM4JEL	05/31

April 11 RARS Meeting Door Prize Winners



Charles WB4DCM. (dual band antenna) and Keith KM4NBO (book, adventures in DXing)

Nixie Tube Frequency Counter Clock



Alan Pitegoff, AB4OZ, demonstrated a Digital clock that was made with an old Android cell phone and a nixie Tube frequency counter. The cellphone was programmed by Chuck, W2WNC, to output an audio frequency that matches the time. 717 Hz for 7:17. There is an audio amplifier that came from a computer speaker between the phone and the counter.

April 11, 2017 RARS meeting Presentation



Will Roberts, AA4NC and Murray Adams, WA4DAN

Gave a presentation about the August 19 - 29, 2016, Dxpediton to St. Paul Island.



New HAM / Elmer meeting, 6:00 p.m. before the member meeting



Tadd, KA2DEW cutting some RG8X cable

The new hams made RG8X coax jumper cables and learned about crimper tools and soldering. We made a total of 7 cables and all of the cables went home with the students.

At the May meeting we're going to see if we can get on the air on 40m and make some contacts. Weather permitting we'll set up a 40m full size dipole in the front of the church and run a 100watt HF radio someplace around 7.25Mhz SSB.

The New Hams meeting is held every month before the regular RARs meeting. We'll try to start by 6pm. We try to address topics in a manner that will be of help to hams in their first year of operation.

Tadd Torborg, KA2DEW, Elmer Coordinator

RARS new member

Fifteen year old, Sheridan Page, KN4CUS passed the General test at the RARSfest.

**Copied from one page of The ARRL Letter for April 20, 2017.
with corrected number of visitors**

RARSfest Hosts 2017 ARRL Roanoke Division Convention. The 45th annual [RARSfest](#) on April 15 -- sponsored by the Raleigh Amateur Radio Society -- hosted the 2017 ARRL Roanoke Division Convention. The convention was held indoors at the North Carolina State Fairgrounds, in Raleigh. ARRL Marketing Manager Bob Inderbitzen, NQ1R, who represented the League at the event, said a youth-operated special event station was among the activities aimed to appeal to younger attendees. In a presentation highlighting some ARRL Second Century activities, Inderbitzen noted the ARRL Collegiate Amateur Radio Initiative, intended to bolster activity at college and university ham radio clubs.

Emphasizing some of the goals of the [ARRL Strategic Plan](#), he further encouraged all radio amateurs to work closely with ARRL to help new licensees get involved, get active, and get on the air.

ARRL Roanoke Division Director Jim Boehner, N2ZZ, presented the 2016 Roanoke Division ARRL Service Award to Matthew W. McGuire Jr., AF4UZ. The award was instituted in 1968 by then-Roanoke Division Director and past ARRL President Vic Clark, W4KFC (SK). It recognizes an individual's history of significant and consistent contributions to Amateur Radio.



ARRL Roanoke Division Director Jim Boehner, N2ZZ (left), presented the 2016 Roanoke Division ARRL Service Award to Matthew W. McGuire Jr., AF4UZ. [Bob Inderbitzen, NQ1R, photo]

Among the many ARRL volunteers represented at the convention were North Carolina Section Manager Karl Bowman, W4CHX; Section Youth Coordinator for Scouting Dave Price, K4KDP; DXCC Card Checker and Raleigh Area QSL Manager Bill McDowell, K4CIA; Berkeley County (SC) ARES Emergency Coordinator Linda Selleck, KJ4EVV; Roanoke Division Assistant Director Chuck Littlewood, K4HF, and Roanoke Division Vice Director Bill Morine, N2COP.

Inderbitzen estimated that the convention attracted about ~~600~~ visitors (1673 tickets were sold). Event photos are on the ARRL [Facebook](#) page.



NTS group with ARRL officials at RARSfest, April 14, 2017



Left to right: Bob NQ1R, Tim N4IB, Hal WB4ZIQ, Bob K4HA, Karl W4CHX, Wade KW4EMG, Joe W4TTO, Carl W8WZ, Wade KG4KAH, John W4CC, Bill N2COP, Mike KE4AHC, Joanne AA3N, Kevin KN4AAG, Lane WK4WC, Matt KF4ZGZ, Clyde WC9CW, Dave W4DNA.

Photo by Woody K3VSA.

2017 RARSfest Hourly drawing prize winners

9:00	Pre-registration	\$100	Charles Caldwell	WD4CLT
10:00	Hourly	\$100	Bob Brown	N4GEB
11:00	Hourly	\$100	Deborah Atkins	
12:00	Hourly	\$100	Paul Denisowski	KO4LZ
1:00	Hourly	\$100	Mike Fisher	N3VOP
2:00	Grand Prize	\$400	Wayne Bailey	N4GIL

Great RARSfest

We had a great RARSfest event on Saturday and I hope everyone that volunteered or attended enjoying this truly great opportunity to buy, sell, or just plain talk about amateur radio.

I just wanted to a minute to thank all the dedicated RARS members who selflessly volunteered and made it all possible. We received many positive comments on how smooth everything went and that is all due to all of you who gave so generously of your time over the holiday weekend. A double thanks to all the team leads who have been working since September and made sure we had all our bases covered. I am always impressed by their dedication to RARS and RARSfest. Overall RARS can be proud of the way they are represented by all the members involved.

Of course, nothing is perfect and we constantly try and improve the event, so we are asking anyone that volunteered or attended to please provide some feedback to the team. You can do this via a web form <http://www.rars.org/rarsfest/feedback.php> It's always best to get the feedback soon after the event, so it's fresh in everyone's mind.

Let us know if there was anything you particularly liked or thought went well or any area where you thought we could have done better. It's important for the planning group to be aware of an issue, so we can work to address it. There are always things that can't be improved, but I promise you that the team reviews all feedback from the event. All feedback will be kept confidential.

In addition, several of you expressed interest in the planning committee. If you would like to be part of that process, just send me an email.

Thanks again to all the RARS members that made this happen. -Ian, N0IAN

Ian Hewitt, N0IAN
NASA/JPL Solar System Ambassador
RARSfest 2017 Chair
NWS Skywarn Spotter

Other RARSfest prize winners

\$25 ARRL Gift Certificate - Gregory Schwizer
\$25 ARRL Gift Certificate - Eugene Moses KC4WDI
\$50 ARRL Gift Certificate - Robert Young NC4RY
American Flag - Lyn WA4GEH
American Flag - John Stone

American Flag - Tim Key W4AOC
Down East Hamfest Tickets - Mike Page
Down East Hamfest Tickets - Doug Ferris, K4ROK
Down East Hamfest Tickets - Scott Hall

Satellite Demos Success at RARSfest.

Thanks to everyone at RARS who helped me set this up, especially Ian who got me on the PA and loaned me a table and answered a lot of questions. Follow this link for more information and pictures.

spacecomms.wordpress.com/2017/04/16/raleigh-hamfest-satellite-demos-success

73, John Brier KG4AKV

NTS group at the Down East Hamfest, April 22, 2017



Standing left to right: John KJ4EJH, Janice KJ4JPE, Bernie KI4HHU, Joanne AA3N, Joe W3OJO. Seated: Dave W4DNA. Photo by Bill AK4BL.

Amateur Radio Operator Technician Class starts

The first session of the Technician Licensing Class was held April 29th. For more information see page 10 of the April 2017 edition of the Exciter.



Curt Phillips, W4CP getting started at the Tech Class

18 students, 2 are children



Useful & Interesting websites

The **North American** site for **World Wide Flora & Fauna** in Amateur (Ham) Radio, also known as **Parks on the Air (POTA)**.

<https://wwff-kff.com>

AB6EJ developed a data collector for DX Cluster spots which shows both current and historical reports (going back over 4 years) in a variety of user-friendly graphics showing trends and global map locations for stations reporting and heard. A website is available so you can use the system in real time. SITE: <http://dxdisplay.caps.ua.edu>

Description of the above, QRZ:

forums.qrz.com/index.php?threads/ham-radio-analytics.562029

ARRL Roanoke Division

www.arrl-roanoke.com

Asheville Radio Museum

www.avlradiomuseum.org

Antique Wireless Association, Bloomfield, New York

www.antiquewireless.org

Future RARS 2017 Meeting Topics

Titles, topics, and speakers subject to change.

5/9/2017	SKYWARN training	Virginia NC4VA
6/13/2017	Field Day	Marty W4MY Field day chair
7/11/2017	Recent advances in radio frequency imaging research for aviation security	Daniel Marks KW4TI

Minutes

Raleigh Amateur Radio Society Board of Directors Meeting March 21, 2017

The Board of Directors of the Raleigh Amateur Radio Society met Tuesday, March 21, 2017, at Ridge Road Baptist Church. President Dennis NC4DK called the meeting to order at 7:11 p.m.

Present: Dennis NC4DK, Chuck K4HF, Hank K4HM, Carl W8WZ, Ian N0IAN, and Bob NC1X, which group did not represent a quorum. Also Visitor Alan AB4OZ.

A quorum not being present, approval of the minutes of the February 21, 2017 Board of Directors meeting was postponed until a later meeting.

Vice President: Tom N4TL was not present.

Treasurer: (Greg KE4PAX): (By e-mail, a copy attached to this file): Current membership is 364 including 15 honorary members. The board reviewed the financial condition of the Society. For additional details contact Greg.

Secretary: Bob NC1X – no report

Directors Reports:

Public Service (John K3RHJ): Not present

Education (Carl W8WZ): Carl plans to hold the license classes at the Beltline campus of Wake Tech. Carl should have confirmation of availability by week's end. Seven members volunteered to consider teaching a class. Carl contacted Mike WA4BPJ about classes. It may be possible to use PayPal for the collection of fees.

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PIO (Charles KM4AMT): Not present.

Immediate Past President (Murray K4MHM): Not present.

FM Repeater (Karl W4CHX): Not present.

Director at Large (Joanne AA3N): Not present.

Director at Large (Marty N4MY): Not present.

Director at Large (Raymond NC4OO): Not present.

Other Reports:

Scouting Coordinator (Charles KM4AMT): Not present.

Exciter Chair (Tom N4TL): Not present

Food Service Chair (Bill AK4BL): Not present.

ARRL Liaison (Chuck K4HF): Chuck visited Larry Young K4LXV at Larry's home and left his ARRL card with Larry's family.

ARRL Section (Karl W4CHX): Not present.

Webmaster (Hank K4HM): Tadd Torborg KA2DEW prepared a repeater list which Hank has placed on the RARS website. The programs page for RARS meetings has been updated. The RARSfest page has been updated with a slideshow of RARSfest scenes. A signup link is in for the RARS consignment table.

RARSfest Chair (Ian N0IAN): Preparations are going well. Admissions & security need more volunteers but other functions are staffed. We can probably set up on Thursday again. Chuck K4HF reports the 2018 date has to be March 31 because of an early Easter (April 1) and no available dates in April. This is unfortunate because it will be only two weeks from the Charlotte Hamfest.

Field Day Chair (Marty W4MY): Not present.

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NC QSO Party (Marty W4MY): Not Present.

W4DW/W4RNC Trustee (Jeff AC4ZO): Not present.

Net Manager (Mary KG4OQA): Not present.

Old Business: The Emergency Service page on the RARS Website was discussed. RARS has no person in charge of emergency services. Hank will prepare a list of links.

New Business: Ken Edwards N4ZBB wants to make an ARISS contact. RARS would need to provide a letter of commitment to support the effort. More information is required.

The next Board meeting will be Tuesday, April 18, at 7:00 p.m. at the church.

The meeting was adjourned by President Dennis at 9:10 p.m.

Respectfully submitted,

Robert E Chapman, NC1X

Armed Forces Day Crossband Military/Amateur Radio Communications Test

The Army, Air Force, Navy and Coast Guard are sponsoring the annual military/amateur radio communications tests in celebration of the 66th Anniversary of Armed Forces Day (AFD). The AFD Military/Amateur Crossband Communications Test is conducted 13 May 2017.

The annual celebration is a unique opportunity to test two way communications between Amateurs and military communicators authorized in 47 CFR 97.111, and features traditional military to amateur cross band SSB voice, Morse Code, practice using legacy interoperability waveforms, as well as an opportunity for Amateurs to utilize more modern military communications modes such as MIL-STD Serial PSK and Automatic Link Establishment (ALE).

These tests give Amateur Radio operators and Short Wave Listeners (SWL) an opportunity and a challenge to demonstrate their individual technical skills, and to receive recognition from the appropriate military radio station for their proven expertise.

Charles A. Davis Sr. WA3UTC

www.arrl.org/news/armed-forces-day-crossband-military-amateur-radio-communications-test-is-may-13

MINUTES

Raleigh Amateur Radio Society General Membership Meeting April 11, 2017

The monthly membership meeting of the Raleigh Amateur Radio Society met at the Ridge Road Baptist Church in Raleigh. The meeting was called to order by President Dennis, NC4DK, at 7:30 p.m.

There were 47 members present, which constituted a quorum.

A quorum being present, a motion to accept the minutes of the March 14, 2017 meeting, as published in the Exciter, was made, seconded and approved.

Officers' Reports:

Vice President: Tom N4TL – Next month's presentation will be on Skywarn training by Virginia, NC4VA. Virginia will have a Spotter class at RARSfest on April 15.

Treasurer: Greg, KE4PAX, (not present) submitted a Treasurer's Report (attached to file) which shows 370 members this month, and other details of the Society's financial condition. President Dennis NC4DK highlighted some of the entries. Anyone desiring additional treasury information may contact Greg for details.

Secretary: Bob NC1X- No report

Continuing Announcements:

The RARS Dinner takes place monthly on the first Tuesday (next: May 2ndth) at 6:30 p.m., at the Golden Corral, 6129 Glenwood Ave.

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The RARS Board meeting takes place monthly on the third Tuesday (next: April 18th) at 7:00 p.m. in a conference room here at the Church. Members are invited to attend.

An After-meeting gathering takes place after each Membership meeting, at Applebee's, at Hillsborough and Gorman Streets.

A New Ham / Elmers meeting with new hams and anyone interested takes place before each membership meeting, at 6:00 p.m. at the church.

Other announcements:

Dennis NC4DK mentioned ARISS (international space station) activity taking place. A couple of groups want to make contacts with the space station. RARS will give technical support where possible. John KG4AKV is helping a school, and will do a demo at RARSfest on Saturday at 09:30AM and 20:30AM. He is looking for the equipment.

Alan AB4OZ demonstrated a digital clock he built with a NIXIE tube display. W2WNC wrote a program that runs on old Android phones and produces a tone which the NIXIE equipped digital counter displays as the time.

Board & Committee Reports:

Public Service (John K3RHJ): Not present. The Public Service calendar is at www.rars.org/public-service.php .

Education Director (Carl W8WZ): (Not present) Carl produced a flyer for the next Technician class. Murray K4MHM announced that the dates will be April 29, May 6, 13, and 20th. E-mail Carl for details w8wz@aol.com .

Field Day (Marty W4MY): Field day will be June 25th at the Police Club. If you want to volunteer contact Marty. T-shirts will be available for order for \$11 at next month's meeting on May 9th.

FM Repeater (Karl W4CHX): No report

Continued from the previous page

RARSfest (Ian N0IAN) All is in place for this weekend except Fin NC4FG can use more security volunteers. NC1X has enough admissions volunteers.

Guests: Dennis NC4DK introduced guests Ezra N4ZBU and Greg (no call yet).

Prize drawing – Prizes were won by Keith KM4NBO and Charles WB4DCM.

Program – Tom N4TL introduced Murray Adams WA4DAN and Will Roberts AA4NC who presented a program on the 2016, CY9C St. Paul Island DXpedition. They covered planning, logistics and operations in detail. They operated from both ends of the island to get better takeoffs to different parts of the planet. It was like running two expeditions.

The meeting was adjourned by President Dennis at 9:30 p.m.

Respectfully Submitted,
Robert E Chapman, NC1X
RARS Secretary



Current Public Service Opportunities

To volunteer for a Public Service event please sign up at this location <http://www.rars.org/public-service.php>

The Ham Public Service Net The HPS Net is on vacation, we will resume when the 2017 PS season begins. We will use the following repeaters in the Carolina 440 Link System:

441.725(+)(100) – Raleigh, NC Hub
443.450 (+)(100) – Cane Mt., Snow Camp, NC
444.325 (+)(100) – Holly Springs, NC
444.375 (+)(100) - Henderson, NC
444.550 (+)(100) – Coats, NC
444.775 (+)(100) – Cary, NC
444.875 (+)(100) – Wendell, NC
145.330 (-)(100) – Goldsboro, NC
442.250 (+)(107.2) - McCain/Southern Pines, NC
444.200 (+)(179.9) - Johnsonville, NC
444.025 (+)(100) - Benson, NC
442.425 (+)(100) - Buxton, NC

(The net is also accessible through IRLP Reflector 9210)

The Ham Public Service Yahoo Group link is: [Ham Public Service North Carolina](#)

WELCOME TO THE 2017 HAM PUBLIC SERVICE EVENT SIGNUP PAGE. Choose the event(s) for which you would like to volunteer and complete the sign-up form at the top of the page... note... one form for *EACH event* that you are volunteering. We are glad you are back. Sign up at this location <http://www.rars.org/public-service.php>

2017 Raven Rock Ramble

May 7, 2017 - Sunday - New Hill, NC

This bike event has multiple routes from 10 to 100 miles, requiring SAGS, as well as Hams assigned to Rest Stops. There will be approximately 700 riders participating and raising funds for the UNC Kidney Center.

* Location: Harris Lake County Park, 2112 County Park Dr., New Hill, NC 27562

* Ham Coordinator: John Stone (K3RHJ)

* Website: [Raven Rock Ramble](#)

RARS Classifieds

Copied from www.rars.org/classifieds.php

The items below were listed within the last 30 days on the RARS website.

LDG IT-100 100 Watt Auto Tuner 160 to 6 Meters

Posted April 25th, 2017 by: K4HF

Contact: k4hf@arrl.net

The IT-100 is as new and comes with the ICOM specific cable. The box, cable and manual are included. \$100. Contact me by E Mail, preferred, or (919)872-6555, Thanks, Chuck

ICOM IC-7100 160 to 440 MHz 100 Watt Transceiver

Posted April 25th, 2017 by: K4HF

Contact: k4hf@arrl.net

The 7100 is as new and comes with several accessories. SSB, AM, FM, CW, and D-Star modes. Includes: RT Systems Programming SW; ICOM MBA-1 Head Bracket; Lido Mobile Drink Cup Head holder and the Barrios Base Head Mount. It has the box, manual, mike and DC power cord. \$895. An optional power supply is available. Contact me by E Mail, preferred, or (919) 872-6555. Thanks, Chuck

Excess tubes to give away

Posted April 24th, 2017 by: W4NPN

Contact: fbW4NPN@gmail.com

I have 3 each 4X150A, 1 4CX250F, 1 4CX250B and 1 4CX250R that I'll never use. If anyone wants them you can pick them up in Chapel Hill. These are pulls from what I was told was working equipment but I cannot guarantee them in any way. They have varying degrees of tarnish on the silver bodies but that shouldn't matter. I can mail them if you pay mailing cost via PayPal but of course I prefer a pickup.

Frank, W4NPN fbw4npn@gmail.com

RARS Classifieds continued

Wanted: PK-232 MBX or MBX upgrade kit

Posted April 22nd, 2017 by: KM4EP

Contact: jdiepenb@earthlink.net

Wanted: AEA PK-232 MBX modem, or upgrade kit for PK-232 to MBX

Ham Radio items for sale

Posted April 21st, 2017 by: K4LXV

Contact: k4lxv@twc.com

K4LXV for sale

Henry 2K amplifier, solid state power supply, w/soft start & Peter Dahl plate transform. Two 3-400Z tubes in final. \$800.

Gap 'Eagle' vertical ant, no radials required, 40-10 meters, w/ tilt-over base. You must remove. \$100.

Ameritron RCS-4, 4 antenna remote coax switch. Uses coax cable for control \$50.

Ameritron AWM-30, peak and average indication Wattmeter, 160-10 Meters \$75.

Ameritron ARB-704 amp to rig interface, \$35.

EZ-Way RBX 40 crank up Tilt over tower on ground. Missing hardware & cables.(see www.kf7p.com for some items)(make offer).

2 ea. 3-400Z used good tubes. \$150 for the pair.

All equipment have manuals. Some have boxes.

Larry Young, K4LXV Phone 919-612-1447.

1942 Zenith 10 tube console radio model 10-S-669 for sale

Posted May 2nd, 2017 by: N4TL

Contact: n4tl2@yahoo.com

The radio has been recapped and it works on all bands and sounds great. It has a built in antenna for the broadcast band, called a WaveMagnet. The shortwave bands require an external antenna. The radio is in good condition and the grill cloth has been replaced. \$225. 919-870-9342